INDIAN HEALTH SERVICE

TRENDS IN INDIAN HEALTH—1994

U.S. DEPARTMENT OF HEALTH
AND HUMAN SERVICES
PUBLIC HEALTH SERVICE
INDIAN HEALTH SERVICE
OFFICE OF PLANNING,
EVALUATION, AND LEGISLATION
DIVISION OF PROGRAM STATISTICS

Department of Health and Human Services

Donna E. Shalala Secretary

Public Health Service

Philip R. Lee, M.D. Assistant Secretary for Health

Indian Health Service

Michael H. Trujillo, M.D., M.P.H. Director

Office of Planning, Evaluation, and Legislation

Luana L. Reyes Associate Director Edward J. Simermeyer Deputy Associate Director

Division of Program Statistics

Anthony J. D'Angelo Director



PREFACE

Since 1955, the U.S. Public Health Service, through its Indian Health Service (IHS) component, has had the responsibility for providing comprehensive health services to American Indian and Alaska Native people in order to elevate their health status to the highest possible level. The mission of the IHS is to provide a comprehensive health services delivery system for American Indians and Alaska Natives with opportunity for maximum tribal involvement in developing and managing programs to meet their health needs.

This publication presents tables and charts that describe the IHS program, and the health status of American Indians and Alaska Natives. Information pertaining to the IHS structure, American Indian and Alaska Native demography, patient care, and community health are included. Current and trend information are presented, and comparisons with other population groups are made, when appropriate.

Michael H. Trujillo, M.D., M.P.H.

Assistant Surgeon General

Director, Indian Health Service



TABLE OF CONTENTS

Overview of the	he Indian Health Service Program
Purpose and I	Description of Trends in Indian Health
Summary of D	Oata Shown
Indian Hea	alth Service Structure
Population	Statistics
Natality ar	nd Infant/Maternal Mortality Statistics
General M	ortality Statistics
Patient Car	re Statistics
Communit	y Health Statistics
Sources and L	imitations of Data
Population	Statistics
Vital Event	t Statistics
Patient Car	re Statistics
Communit	y Health Statistics
Glossary	
Sources of Ad	ditional Information
Tables and Ch	narts
Part 1 - India	n Health Service Structure
Chart 1.1	- Indian Health Service
Chart 1.2	- Indian Health Service Area Offices
Chart 1.3	- Indian and Alaska Native Tribal Governments
Chart 1.4	- Indian-Operated Urban Projects
Chart 1.5	- Number of Facilities Operated by Indian Health Service and Tribes
Chart 1.6	- Trend in Indian Health Service Budget
Table 1.6	- Trend in Indian Health Service Budget
Chart 1.7	- Accreditation Status of Selected Health Facilities
Table 1.7	- Accreditation Status of Hospitals, Health Centers, and Regional Youth Treatment Centers
Chart 1.8	- Accreditation Status of Indian Health Service Laboratories
Table 1.8	- Indian Health Service Laboratory Accreditation Status



Chart 1.9	- Proficiency Rating for Indian Health Service Laboratory Services	23
Table 1.9	- Proficiency Rating for Indian Health Service Laboratory Services	23
Chart 1.10	- Trend in Pharmacy Workload by Type of Activity	24
Table 1.10	- Trend in Pharmacy Workload by Type of Activity	24
Chart 1.11	- Pharmacy Workload by Type of Activity	25
Table 1.11	- Pharmacy Workload by Type of Activity	25
Chart 1.12	- Outpatient Visits per Pharmacist	26
Table 1.12	- Outpaitent Visits per Pharmacist	26
Part 2 Popu	ılation Statistics	
Chart 2.1	- Indian Health Service—Service Population	27
Chart 2.2	- Indian Health Service—Service Population by Area	27
Table 2.1	- Indian Health Service—Service Population by Area	28
Chart 2.3	- Population by Age and Sex, 1990 Census	28
Table 2.3	- Age and Sex Percent Distribution	29
Chart 2.4	- Population by Age, 1990	29
Table 2.4	- Number and Percent Age Distribution	30
Chart 2.5	- Educational Attainment	30
Chart 2.6	- Employment Status by Sex	31
Chart 2.7	- Income Status in 1989	31
Table 2.5	- Selected Economic Profiles for the United States, 1990 Census	32
Part 3 Nata	ality and Infant/Maternal Mortality Statistics	
Chart 3.1	- Birth Rates	33
Table 3.1	- Number and Rate of Live Births	33
Chart 3.2	- Births of Low Weight (Under 2,500 Grams) as a Percent of Total Live Births by Age of Mother	34
Table 3.2	- Births of Low Birth Weight (Under 2,500 Grams) by Age of Mother	34
Chart 3.3	- Birth Order by Age of Mother—American Indians and Alaska Natives	35
Chart 3.4	- Birth Order by Age of Mother—U.S. All Races	35
Chart 3.5	- Birth Order by Age of Mother—U.S. White	35
Table 3.3	- Number and Percent Distribution of Live Births by Age of Mother within Birth Order	36
Chart 3.6	- Maternal Death Rates	37
Table 3.6	- Maternal Deaths and Death Rates	37
Chart 3.7	- Infant Mortality Rates	38
Table 3.7	- Infant Mortality Rates	38



Chart 3.8	- Infant Mortality Rates by Age	39
Table 3.8	- Infant Mortality Rates by Age	40
Chart 3.9	- Leading Causes of Infant Deaths	41
Chart 3.10	- Leading Causes of Neonatal Deaths	41
	- Leading Causes of Postneonatal Deaths	42
Table 3.9	_	43
Part 4 Gene	eral Mortality Statistics	
Chart 4.1	- Mortality Rates, Leading Causes: Ages 1 to 14 Years	45
Table 4.1	- Ten Leading Causes of Death for Decedents 1 to 14 Years of Age	45
Chart 4.2	- Mortality Rates, Leading Causes: Ages 15 to 24 Years	46
Table 4.2	- Ten Leading Causes of Death for Decedents 15 to 24 Years of Age	46
Chart 4.3	- Mortality Rates, Leading Causes: Ages 25 to 44 Years	47
Table 4.3	- Ten Leading Causes of Death for Decedents 25 to 44 Years of Age	47
Chart 4.4	- Mortality Rates, Leading Causes: Ages 45 to 64 Years	48
Table 4.4	- Ten Leading Causes of Death for Decedents 45 to 64 Years of Age	48
Chart 4.5	- Mortality Rates, Leading Causes: Ages 65+ Years	49
Table 4.5	- Ten Leading Causes of Death for Decedents 65 Years Old and Older	49
Chart 4.6	- Mortality Rates for Leading Causes	50
Table 4.6	- Ten Leading Causes of Death for Decedents of All Ages	50
Chart 4.7	- Mortality Rates, Leading Causes: Males	51
Chart 4.8	- Mortality Rates, Leading Causes: Females	51
Table 4.7	- Leading Causes of Death by Sex	52
Chart 4.9	- Selected Age-Adjusted Death Rates, Ratio of Indians to U.S. All Races	53
Table 4.9	- Age-Adjusted Mortality Rates	53
Chart 4.10	- Age-Specific Death Rates, Ratio of Indians to U.S. All Races.	54
Chart 4.11	- Age-Specific Death Rates, Ratio of Indians to U.S. White	54
Table 4.10	- Age-Specific Mortality Rates	55
Chart 4.12	- Deaths by Age	56
Chart 4.13	- Deaths by Age and Race	56
Chart 4.14	- Deaths by Age and Sex	57
Table 4.12	- Number and Percent Distribution of Deaths by Age and Sex.	57
Chart 4.15	- Age-Adjusted Injury and Poisoning Deaths	58



Table 4.15 - Deaths and Mortality Rates due to Injury and Poisioning	58
Chart 4.16 - Injury and Poisoning Death Rates by Age and Sex	59
Table 4.16 - Injury and Poisoning Mortality Rates by Age and Sex	59
Chart 4.17 - Age-Adjusted Accident Death Rates	60
Table 4.17 - Accident Deaths and Mortality Rates	60
Chart 4.18 - Accident Death Rates by Age and Sex	61
Table 4.18 - Accident Mortality Rates by Age and Sex	61
Chart 4.19 - Age-Adjusted Suicide Death Rates	62
Table 4.19 - Suicide Deaths and Mortality Rates	62
Chart 4.20 - Suicide Death Rates by Age and Sex	63
Table 4.20 - Suicide Mortality Rates by Age and Sex	63
Chart 4.21 - Age-Adjusted Homicide Death Rates	64
Table 4.21 - Homicide Deaths and Mortality Rates	64
Chart 4.22 - Homicide Death Rates by Age and Sex	65
Table 4.22 - Homicide Mortality Rates by Age and Sex	65
Chart 4.23 - Other Injury Deaths and Mortality Rates	66
Table 4.23 - Deaths and Mortality Rates due to Other Injuries	66
Chart 4.24 - Other Injury Death Rates by Age and Sex	67
Table 4.24 - Other Injury Mortality Rates by Age and Sex	67
Chart 4.25 - Age-Adjusted Alcoholism Death Rates	68
Table 4.25 - Alcoholism Deaths and Mortality Rates	68
Chart 4.26 - Alcoholism Death Rates by Age and Sex	69
Table 4.26 - Alcoholism Mortality Rates by Age and Sex	69
Chart 4.27 - Age-Adjusted Malignant Neoplasm Death Rates	70
Table 4.27 - Malignant Neoplasm Deaths and Mortality Rates	70
Chart 4.28 - Malignant Neoplasm Death Rates by Age and Sex	71
Table 4.28 - Malignant Neoplasm Mortality Rates by Age and Sex	71
Chart 4.29 - Age-Adjusted Tuberculosis Death Rates	72
Table 4.29 - Tuberculosis Deaths and Mortality Rates	72
Chart 4.30 - Age-Adjusted Diabetes Mellitus Death Rates	73
Table 4.30 - Diabetes Mellitus Deaths and Mortality Rates	73
Chart 4.31 - Age-Adjusted Gastrointestinal Disease Death Rates	74
Table 4.31 - Gastrointestinal Disease Deaths and Mortality Rates	74
Chart 4.32 - Age-Adjusted Acquired Immunodeficiency Syndrome (AIDS) Death Rates	75
Table 4.32 - Acquired Immunodeficiency Syndrome (AIDS) Deaths and Mortality Rates	75
Chart 4.33 - Life Expectancy at Birth	76



Chart 4.34	-	Years of Productive Life Lost	76
Chart 4.35	-	Age-Adjusted Mortality Rate	77
			78
t 5 Patiei	nt	Care Statistics	
Chart 5.1	-	Indian Health Service Program Accomplishments Since 1973.	79
Table 5.1	-	Program Accomplishments—IHS Service Area	79
Chart 5.2	-	Indian Health Service Tribal Health Contract and Grant Awards	80
Table 5.2	-	Indian Health Service Tribal Health Contract and Grant Awards	80
Chart 5.3	-		81
Table 5.3	-	Indian Health Service Tribal Health Contract and Grant Awards	01
Clarat C 4		v v-	81
			82
			82
		•	83
			83
			84
			84
		•	85
		•	85
		•	86
		1	86
			87
		·	88
Table 5.10	-	Comparison of Indian Health Service and U.S. Hospital Discharge Rates by Age	88
			89
Table 5.11	-	Comparison of Indian Health Service and U.S. Hospitals by Bed Size	89
Chart 5.12	-	Number of Outpatient Visits	90
Table 5.12	-	Number of Outpatient Visits	90
			91
			91
Chart 5.14	-	Leading Causes of Males Outpatient Visits	92
		-	92
		Number of Outpatient Clinical Impressions for Leading Major	93
	Chart 4.35 Table 4.33 *t 5 Patient Chart 5.1 Table 5.1 Chart 5.2 Table 5.2 Table 5.2 Chart 5.3 Table 5.3 Chart 5.4 Table 5.4 Chart 5.5 Table 5.5 Chart 5.6 Table 5.6 Chart 5.7 Table 5.7 Chart 5.8 Chart 5.9 Table 5.7 Chart 5.8 Chart 5.9 Table 5.10 Table 5.10 Table 5.11 Chart 5.11 Table 5.11 Chart 5.12 Table 5.12 Chart 5.13 Table 5.13 Chart 5.14 Chart 5.15	Chart 4.35 - Table 4.33 - **t 5 Patient Chart 5.1 - Table 5.1 - Chart 5.2 - Table 5.2 - Table 5.3 - Table 5.4 - Table 5.5 - Table 5.5 - Table 5.6 - Table 5.6 - Table 5.7 - Chart 5.8 - Chart 5.9 - Table 5.8 - Chart 5.10 - Chart 5.11 - Table 5.11 - Chart 5.12 - Table 5.13 - Chart 5.13 - Chart 5.13 - Chart 5.14 - Chart 5.14 - Chart 5.15 -	Table 5.1 - Program Accomplishments—IHS Service Area



	Chart 5.16	Workloads, Ages Under 15
	Chart 5.17	- Percent Distributions for Population and Patient Care Workloads, Ages Over 14
	Table 5.16	- Percent Distributions for Estimated Population, Outpatient Clinical Impressions, and Inpatient Discharges and Days
	Chart 5.18	- Percent Distribution of Outpatient Visits by Type of Provider
	Table 5.18	- Number of Outpatient Visits by Type of Provider
	Chart 5.19	- Trend in Average Daily Patient Load
	Chart 5.20	- Trend in Number of Outpatient Visits
	Chart 5.21	- Trend in Preventive Outpatient Visits
	Chart 5.22	- Dental Services Provided
	Chart 5.23	- Dental Services Provided by Tribal/Urban Programs
	Table 5.22	- Number of Dental Services Provided
	Chart 5.24	- Trend in Community Water Systems Monitoring Fluoridation
	Chart 5.25	- Annual Preventive Sealant Usage
Pai	rt 6 Comi	munity Health Statistics
	Chart 6.1	- Age-Adjusted Drug-Related Death Rates
	Table 6.1-	- Drug-Related Deaths and Mortality Rates
	Chart 6.2	- Drug-Related Death Rates by Age and Sex
	Table 6.2	- Drug-Related Mortality Rates by Age and Sex
	Chart 6.3	- Alcohol-Related Discharge Rates (First-Listed Diagnosis)
	Table 6.3	- Number and Rate for Discharges with a First-Listed Diagnosis of Alcoholism for Persons 15 Years and Older
	Chart 6.4	- Environmental Health Services Provided
	Chart 6.5	- Leading Environmental Health Services Provided
	Chart 6.6	- Injury Prevention Services
	Chart 6.7	- Hospitalizations for Injuries and Poisonings
	Chart 6.8	- Age-Adjusted Motor Vehicle Death Rates for Males
	Table 6.8	- Motor Vehicle Deaths and Mortality Rates for Males
	Chart 6.9	- Age-Adjusted Motor Vehicle Death Rates for Females
	Table 6.9	- Motor Vehicle Deaths and Mortality Rates for Females
	Chart 6.10	- Indian Health Service Nutrition and Dietetics—Trend in Patient/Client Contacts by Nutrition Function
	Chart 6.11	- Indian Health Service Nutrition and Dietetics—Percent of Contacts by Setting
	Chart 6.12	- Indian Health Service Nutrition and Dietetics—Percent of Contacts by Nutrition Function



Chart 0.13 -	Contacts by Type of Encounter
Table 6.11 -	Nutrition and Dietetics Patient/Client Contacts
Chart 6.14 -	Leading Clinical Nutrition Patient/Client Contacts
Table 6.14 -	Leading Clinical Nutrition Patient/Client Contacts
Chart 6.15 -	Indian Health Service Public Health Nursing—Percent of Visits by Program Area
Table 6.15 -	Public Health Nursing Visits by Program Area
Chart 6.16 -	Indian Health Service Public Health Nursing—Percent of PHN Time by Type of Activity
Table 6.16 -	Public Health Nursing Time Worked by Type of Activity
Chart 6.17 -	Indian Health Service Public Health Nursing—Patient Visits by Age and Sex
Table 6.17 -	Public Health Nursing Visits by Age and Sex of Patients
Chart 6.18 -	Indian Health Service Public Health Nursing—Visits by Age .
Table 6.18 -	Public Health Nursing Visits by Age of Patients
Chart 6.19 -	Distribution of CHR Client Contacts by Setting
Table 6.19 -	Community Health Representative Client Contacts by Setting
Chart 6.20 -	CHR Health Care Contacts—Trend in Leading Detailed Activities
Table 6.20 -	Community Health Representative Client Contacts for Leading Detailed Activities
Chart 6.21 -	Leading Health Problems for CHR Client Contacts
Table 6.21 -	Community Health Representative Client Contacts for Leading Health Problems
Chart 6.22 -	Leading Types of CHR Incoming Client Referrals
Chart 6.23 -	Leading Types of CHR Outgoing Client Referrals
Chart 6.24 -	Types of Indian Homes with Sanitation Facilities Funded by Indian Health Service
Table 6.24 -	Indian Homes Funded to Receive Sanitation Facilities from Indian Health Service
Chart 6.25 -	Contributions to Indian Health Service Sanitation Facilities Projects
Table 6.25 -	P.L. 86–121 Program—Summary of Cash Contributions Received by Contributor
Chart 6.26 -	Sanitation Facilities Deficiencies—Costs
Chart 6.27 -	Sanitation Facilities Deficiencies—Units
Table 6.26 -	Sanitation Facilities Deficiency Summary